1	Draft Minutes
2	Scientific Advisory Committee Meeting
3	October 14, 2020
4	Department of Forensic Science, Held Electronically
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6	Committee Members Present
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8	Randall E. Beaty
9	Maureen C. Bottrell
10	Kathleen Corrado, Ph.D.
11	Robin W. Cotton, Ph.D.
12	Leslie E. Edinboro, Ph.D.
13	Linda C. Jackson
14	George C. Maha, Ph.D.
15	Richard P. Meyers, <i>Chair</i>
16	Kristin Schelling
17	Jami J. St. Clair
18	Kenneth B. Zercie
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20	Committee Members Absent
21	Travis Y. Spinder
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23	Staff Members Present
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25	Jeffrey D. Ban, Central Laboratory Director
26	David A. Barron, Ph.D., Deputy Director
27	Sabrina S. Cillessen, Physical Evidence Program Manager
28	Leslie H. Ellis, Human Resources Director
29	Katya N. Herndon, Chief Deputy Director
30	James W. Hutchings, Ph.D., Toxicology Program Manager
31	Amy C. Jenkins, Department Counsel
32	Alka B. Lohmann, Director of Technical Services
33	M. Scott Maye, Northern Laboratory Director
34	Jessica B. Norton, Legal Assistant
35	Susan Stanitski, Eastern Laboratory Director
36	Jennifer L. Taylor, Procurement Specialist I, Secretary
37	Rebecca Wagner, Ph.D., Research Section Supervisor
38	Robyn B. Weimer, Chemistry Program Manager
39	Call to Order
40	As a result of the state of emergency declared by Covernor Northern due to COVID 10, the
40 41	As a result of the state of emergency declared by Governor Northam due to COVID-19, the Scientific Advisory Committee conducted the meeting by electronic communication means using
42	the Google Meet platform. The public was permitted to attend and participate via video or audio
42 43	conference. Directions for public participation were provided on the meeting agenda and posted
4 3 44	on Virginia's Town Hall.
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- 45 Mr. Meyers, the Chair of the Scientific Advisory Committee ("Committee" or "SAC"), called the
- 46 meeting of the Committee to order at 10:04 a.m. Mr. Meyers requested Ms. Taylor to call the roll
- 47 to ensure that a quorum was present. Ms. Taylor called the roll as follows:
- 48 Mr. Beaty Present
- 49 Ms. Bottrell Not present at time of roll-call, but joined subsequently
- 50 Dr. Corrado Present
- 51 Dr. Cotton Present
- 52 Dr. Edinboro Present
- 53 Director Jackson Present
- 54 Dr. Maha Present
- 55 Mr. Meyers Present
- 56 Ms. Schelling Present
- 57 Mr. Spinder Not present
- 58 Ms. St. Clair Present
- 59 Mr. Zercie Present
- 60 Ms. Taylor advised that a quorum was present.

Adoption of Agenda

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- Mr. Meyers noted that the first order of business was the adoption of the draft agenda for the
- 63 meeting, which was previously sent to the Committee members. Director Jackson noted that there
- were two changes that needed to be made to the agenda: 1) the order of the presentations for the
- Division of Technical Services (DTS) should be switched so that Dr. Hutchings presents the
- Toxicology Update first and Ms. Lohmann gives the DTS Update last; and 2) Ms. Lohmann would
- be presenting the Biology Program Update for Brad Jenkins. Ms. Schelling made a motion to adopt
- 68 the agenda with those two changes, which was seconded by Mr. Zercie. A roll-call vote was taken,
- and the members voted as follows:
- 70 Mr. Beaty Yes
- 71 Dr. Corrado Yes
- 72 Dr. Cotton Yes
- 73 Dr. Edinboro Yes
- 74 Director Jackson Yes
- 75 Dr. Maha Yes
- 76 Mr. Meyers Yes
- 77 Ms. Schelling Yes
- 78 Ms. St. Clair Yes
- 79 Mr. Zercie Yes

Adoption of Minutes of the July 14, 2020 Committee Meeting

- Mr. Meyers noted the draft minutes from the July 14, 2020 meeting were previously shared with
- 82 the Committee and asked if there were any proposed changes. Being none, Dr. Edinboro made a
- 83 motion that the minutes be approved. The motion was seconded by Dr. Corrado. A roll-call vote
- was taken, and the members voted as follows:

85 Mr. Beaty – Yes 86 Dr. Corrado – Yes 87 Dr. Cotton – Yes 88 Dr. Edinboro – Yes 89 Director Jackson – Yes 90 Dr. Maha – Yes 91 Mr. Meyers – Yes 92 Ms. Schelling – Yes 93 Ms. St. Clair - Yes

Mr. Zercie – Yes

95 Chair's Report

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- 96 Mr. Meyers indicated that he did not have anything to report.
- 97 **DFS Director's Report**
- 98 Agency Updates
- 99 Director Jackson advised the Committee of the emergency temporary regulations for workplace
- safety adopted by the Department of Labor and Industry (DOLI) due to COVID-19. She explained
- that DFS has developed and implemented all required policies, procedures, plans and trainings in
- accordance with the DOLI standard.
- Facilities:
- 104 Director Jackson provided an update on the Central Laboratory facility project. The schematic
- design phase was completed in September 2020, and the preliminary design phase is in progress
- with preliminary drawings scheduled to be submitted to the Department of General Services'
- Division of Engineering and Buildings by January 1, 2021. Because the project transitioned from
- renovation/expansion of the existing Central Laboratory to construction of an entirely new facility,
- the budget for the project will be re-evaluated once the preliminary drawings have been approved.
- 110 Agency Initiatives:
- 111 Director Jackson informed the Committee that the Performance Audit of DFS by the Office of
- the State Inspector General (OSIG) had been suspended. The Department was notified on August
- 113 14, 2020 that the audit would be suspended until OSIG can contract for resources better suited to
- analyze the technical, scientific processes used by DFS.
- Director Jackson advised that the amendments to the Department's Regulations for the Approval
- of Field Tests for Detection of Drugs went into effect on October 1, 2020. The amendments
- expanded the definition of field test to include presumptive mobile instruments and set up a
- process for the approval of presumptive mobile instruments.
- Director Jackson announced that, on September 29, 2020, DFS completed its reviews of the data
- from all Physical Evidence Recovery Kits tested by the private laboratory under the Sexual
- 121 Assault Kit Initiative (SAKI) Grant. A total of 894 kits from 78 Virginia law enforcement

- agencies were sent for testing under the SAKI Grant, and 337 cases had DNA profiles uploaded
- for searching in the Data Bank. As of September 30th, DFS had reported 148 Data Bank hits in
- the SAKI cases. She also reminded the SAC of the work of staff to conduct similar reviews of
- kits tested under the District Attorney's Office of New York (DANY) Grant, and noted that, as
- of September 30th, there had been 243 hits reported in DANY cases. Director Jackson
- acknowledged the hard work of the 35 DNA scientists across the state who worked over 2,800
- hours of overtime to complete these two projects and, in particular, Central Forensic Biology
- 129 Group Supervisor Theresa Francis, who coordinated the projects for DFS.

130 Budget:

- Director Jackson presented an overview of the DFS Budget to the Committee, including the
- Department's pledged savings for FY20, COVID-19 funding, new budget items that were
- unallocated and subsequently removed from the DFS budget, and the Department budget for
- 134 FY21/FY22. She noted a hiring freeze was put in place due to COVID-19 in April, but explained
- that there is an exemption in place for positions directly related to public safety, which applies to
- 136 DFS scientist and Evidence Receiving positions.

137 Grants:

- Director Jackson presented a summary of DFS grants, including three grants that DFS was just
- notified that it had been awarded.

140 <u>Workload/Backlog:</u>

- Director Jackson provided an update on statistical trends in each of the scientific disciplines, as
- well as turnaround times for September. She presented Q3 (July-September) statistics for 2020 as
- 143 compared to the same period in 2019. Overall, case submissions were down 8%, but that decline
- was really driven by the 23% decrease for Controlled Substances as that section sees the largest
- volume of cases. For Q3 2020, the Firearms & Toolmarks, Forensic Biology, and Toxicology
- Sections all had an increase in submissions over Q3 2019. Director Jackson pointed out that the
- reduced submissions for Controlled Substances, which have occurred since the beginning of the
- pandemic, allowed DFS to significantly reduce its drug case backlog. At the end of September
- 2019, the backlog was 12,323 cases, but it was down 65% by the end of September 2020 to 4,263
- 150 cases.

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Division of Technical Services Updates

152 Toxicology Update:

- 153 Toxicology Program Manager James Hutchings, Ph.D., informed the Committee of the
- Department participating in the National Governors Association Learning Collaborative on State
- Strategies to Strengthen and Leverage Data to Address Impaired Driving. Virginia is one of ten
- states involved in this initiative.
- 157 Dr. Hutchings advised that the Department had 37 staff attend the Society of Forensic
- Toxicologists Annual Meeting, which was held virtually in September 2020. DFS had three staff
- members who presented as part of the program.

- 160 Dr. Hutchings provided an update on implementation of the Hamilton Automated Liquid Handling
- 161 Systems.
- 162 Dr. Hutchings also provided an overview of two recently validated methods:
 - Fentanyl Derivative Quantitation and Confirmation by Solid Phase Extraction
 - Fentanyl Derivative Qualitative Analysis by Solid Phase Extraction

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Validation documentation for the two methods was provided to the Toxicology Subcommittee members for review in advance, and the Subcommittee members advised the Department that they did not believe a Subcommittee meeting was necessary to discuss the documentation. Dr. Edinboro made comments for the Department to consider and provided recommendations with respect to validation parameters and potential interferents.

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Dr. Edinboro brought up a recommendation made by the Toxicology Subcommittee at its July 2020 meeting. In closing its review of the validation/verification documentation for several methods in July, the Subcommittee recommended, on a 3-1 vote, that the Department experimentally determine the limit of detection of each compound present versus using an administratively determined limit of detection concentration. Dr. Hutchings explained the incorporation of new terminology to address this recommendation. Dr. Edinboro requested that DFS report back at the next SAC meeting with actions taken in response to the recommendation from July 2020.

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Dr. Hutchings discussed recently added Toxicology methods, as well as future methods. He also reviewed Toxicology statistics for 2020, noting that although there has been a reduction in vehicle travel as a result of the pandemic, the volume of submissions for Toxicology cases for the first half of 2020 was higher than the same period in 2019. This is true for DUI/DUID cases, as well as OCME and other Toxicology cases.

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- Dr. Hutchings provided a staffing update on the Toxicology Program Area, which included a review of staffing in the Toxicology and Breath Alcohol Sections.
- 189 The Breath Alcohol Section expanded its online recertification course for Breath Alcohol operators
- 190 due to restrictions on in-person training. The Section resumed in-person training for initial
- 191 operators in June 2020, but the classes are limited to 15 students to allow for social distancing.
- 192 This has required DFS to increase the number of classes offered. In-person recertification has
- resumed as well.
- 194 Dr. Hutchings provided an update on the Breath Alcohol instrument enhancement. He also
- reviewed statistics showing a marked reduction in the number of breath tests conducted since
- 196 March 2020 as compared to the same period in 2019.
- 197 Chemistry Program Update:
- 198 Chemistry Program Manager Robyn Weimer provided an update on the Chemistry Program Area.
- 199 She started with the Trace Evidence Section, including a staffing update, as well as education for

- staff that was obtained through a free online symposium held in July 2020 on Current Trends in
- Forensic Trace Analysis, which covered primer residue, paint, glass, and tape.
- 202 Ms. Weimer updated the Committee on report wording changes for the Trace Evidence Section
- that are applicable to all Trace Evidence examinations that involve a comparison. This change,
- 204 which will occur in October 2020, implements assessments of significance into report conclusions.
- 205 Information about the change has been incorporated into trainings for customers so they are aware
- that it will soon be implemented.
- Ms. Weimer advised that there has been an increase in requests for juvenile Primer Residue cases,
- which are required to be rushed. Comparing March through September of 2020 to the same period
- in 2019, the volume of requests has increased 40%. These cases tend to have multiple suspects
- which equates to a longer analysis time and can, therefore, impact turnaround time for other cases.
- Ms. Weimer provided an update on staffing in the Controlled Substances Section, as well as the
- 212 approximately eight hours of training Controlled Substances staff received by attending the
- 213 Southwestern Association of Forensic Scientists annual meeting, which was hosted online from
- 214 October 5-8, 2020.
- Ms. Weimer provided an update on the use of the Board of Pharmacy (BoP) expedited regulatory
- scheduling process. The Department recommended 13 compounds in July 2020. These compounds
- were considered by the BoP at its September meeting and are pending final approval.
- Ms. Weimer concluded with an update on several validations related to the analysis of cannabis,
- 219 including a semi-quantitative method for non-plant material matrices for THC and full quantitative
- 220 method for THC using gas chromatography mass spectrometry in selected ion monitoring mode.
- 221 Physical Evidence Program Update:
- 222 Physical Evidence Program Manager Sabrina Cillessen provided the Committee with an update on
- 223 the Physical Evidence Program Area. She gave an overview of staffing for the Firearms &
- Toolmarks, Latent Prints & Impressions, and Digital & Multimedia Evidence (DME) Sections.
- 225 The Latent Prints Section received 16 hours of training at the Virtual 2020 Chesapeake Bay
- 226 Division International Association for Identification (IAI) Educational Conference.
- For Firearms, Ms. Cillessen reported on the validation of the Cadre 3D scanner equipment and the
- 228 evaluation of the Uncertainty of Measurement in the Distance Determination method.
- Ms. Cillessen gave an update on the ATF Minimum Required Operating Standards for the National
- 230 Integrated Ballistic Information Network (NIBIN) equipment. Two additional law enforcement
- agencies acquired new NIBIN systems, the Richmond Police Department and the Norfolk Police
- 232 Department.
- Now that the DME Section is fully staffed, the Section has been reducing its backlog. They have
- also updated their procedures to improve turnaround times through implementation of date and
- 235 time filters to reduce the amount of data they are looking at and that is returned to the submitting
- agency. The Section has also enhanced their capabilities with their existing equipment and

- 237 methods, including identifying key components of an iPhone that are damaged and preventing
- charging and/or data connectivity, analyzing iPhone logs that document application usage activity,
- and analyzing Microsoft Windows 10 "Your Phone" application.
- 240 Forensic Biology Program Update:
- 241 Alka Lohmann, Director of the Division of Technical Services (DTS), provided a staffing update
- for the Forensic Biology program area.
- 243 Ms. Lohmann noted that there are four examiners in Y-STR training. She also shared information
- on the deployment of STRmix, noting that the training of the first set of examiners continues and
- that external training is scheduled for eight examiners.
- 246 Ms. Lohmann provided an update on the status of various validation projects, including STRmix
- and new Real-Time PCR instruments.
- 248 Ms. Lohmann shared information on a DNA Research Grant that has been awarded to the
- 249 Department for an automated or semi-automated differential extraction method.
- 250 DNA examiners attended the Promega meeting remotely in September. A virtual National CODIS
- 251 meeting is scheduled in December for state and local CODIS administrators.
- Ms. Lohmann also reported on the new Quality Assurance Standards (QAS) that went into effect
- on July 1, 2020. DFS has updated all of its manuals and is in compliance with the new standards.
- 254 An external audit of DFS to the new QAS is scheduled for December 2020.
- 255 Ms. Lohmann advised the Committee on the Data Bank's planned transition to a prelog, electronic
- 256 portal for sample information and pre-submission data. The Data Bank is expected to start testing
- 257 the system in the staging environment before the end of the year.
- 258 <u>Division of Technical Services Update:</u>
- 259 Ms. Lohmann provided a staffing update for the Division of Technical Services.
- The Department was notified on September 25, 2020 of its successful completion of the ISO/IEC
- 261 17025 surveillance assessment for Testing and Calibration.
- Ms. Lohmann advised that the 101st Forensic Science Academy class is currently in session. DFS
- 263 received funding from the Department of Criminal Justice Services (DCJS) for the part-time
- Forensic Trainer position. Accordingly, three Forensic Science Academy sessions are planned for
- 265 2021.
- 266 Ms. Lohmann informed the Committee that Coronavirus Emergency Supplemental Funding
- 267 through DCJS will ensure the continuity of operations and safety of staff and students for Breath
- 268 Alcohol and Forensic Training courses. The funding will assist in moving toward paperless Breath
- 269 Alcohol instrument certifications and provide equipment to increase capacity for online course
- 270 delivery.

- 271 Ms. Lohmann concluded by informing the Committee of the Department's continued participation
- in the reorganized Organization of Scientific Area Committees. Ms. Lohmann also discussed the
- 273 Department's involvement in standards development activities, including the ASTM E30
- 274 Committee on Forensic Science, and the standards developed by the AAFS Standards Board
- 275 (ASB), and the International Organization of Legal Metrology's R126 Recommendation on Breath
- 276 Alcohol Analyzers.
- 277 Mr. Meyers reminded the Committee that it needed to take action with respect to the validation
- documentation for the two fentanyl derivative methods that were discussed during Dr. Hutchings'
- presentation. After discussion, Dr. Edinboro made a motion to close the review of the validation
- 280 with a recommendation that the Department consider his comments and report back with
- appropriate follow up on the comments at the next SAC meeting. Ms. St. Clair seconded the
- motion. A roll-call vote was taken, and the Committee members voted as follows:
- 283 Mr. Beaty Yes
- 284 Ms. Bottrell Yes
- 285 Dr. Corrado Yes
- 286 Dr. Cotton Yes
- 287 Dr. Edinboro Yes
- 288 Director Jackson Yes
- 289 Dr. Maha Yes
- 290 Mr. Meyers Yes
- 291 Ms. Schelling Yes
- 292 Ms. St. Clair Yes
- 293 Mr. Zercie Yes

294 Old Business

- 295 Microscopic Hair Comparison Case Review:
- 296 Amy Jenkins, Department Counsel, provided an update on the Microscopic Hair Comparison Case
- 297 Review. The Forensic Science Board's Microscopic Hair Comparison Case Review Subcommittee
- 298 met on September 2, 2020 to consider recommendations from the Review Team with the respect
- 299 to nine transcripts. Ms. Jenkins advised that the Subcommittee approved notifications with respect
- 300 to four of the nine transcripts. DFS is continuing to review cases for positive probative hair
- associations to identify additional cases for the project.

Future Meeting Date

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The Scientific Advisory Committee will meet on April 20, 2021 and October 13, 2021.

Public Comment

- Mr. Meyers inquired whether any member of the public would like to provide any comments. No
- member of the public provided comment.

Adjournment

Mr. Meyers asked for a motion to adjourn. Dr. Edinboro made a motion to adjourn the meeting of the Scientific Advisory Committee, which was seconded by Mr. Zercie. A roll-call vote was taken, and the members voted as follows:

311	Mr. Beaty – Yes
312	Ms. Bottrell – Yes
313	Dr. Corrado – Yes
314	Dr. Cotton – Yes
315	Dr. Edinboro – Yes
316	Director Jackson - Yes
317	Dr. Maha – Yes
318	Mr. Meyers – Yes
319	Ms. Schelling – Yes
320	Ms. St. Clair – Yes
321	Mr. Zercie – Yes

The meeting adjourned at 11:40 a.m.